

IN THE CLAIMS:

1. **(Currently Amended)** A fracturing fluid comprising a polar base, 0.1-5.0% of a mid-molecular weight polyacrylate, and an activator for ionizing said polyacrylate to a hygroscopic state and a breaker in an amount of 0.1-1.0% wt, wherein said breaker is NaCl or Kcl.
2. **(Previously Presented)** A fracturing fluid comprising a polar base, 0.1-5.0% of a mid-molecular weight polyacrylate, and an activator for ionizing said polyacrylate to a hygroscopic state, wherein said polyacrylate is a polyacrylic acid polymer cross linked with polyalkenyl ethers or di-vinyl glycol.
3. **(Original)** A fluid as claimed in claim 2, wherein said polyacrylate is present in particles of about 0.2 micron diameter.
4. **(Original)** A fluid as claimed in claim 3, wherein said fluid is provided with 0.1-5.0% (wt) of an activator to initiate hydration of said polyacrylate.
5. **(Original)** A fluid as claimed in claim 4, wherein said activator is selected from triethanolamine, NaOH, KOH and NH₄OH.
6. **(Currently Amended)** A fluid as claimed in claim 5 ‡, further including a breaker in an amount of 0.1-1.0% wt.
7. **(Previously Presented)** A fracturing fluid comprising a polar base, 0.1-5.0% of a mid-molecular weight polyacrylate, an activator for ionizing said polyacrylate to a hygroscopic state, and
a breaker, wherein said breaker is encapsulated.

8. **(Currently Amended)** A fluid as claimed in claim 7 6, wherein said breaker is an organic or inorganic salt.

9. **(Currently Amended)** A fluid as claimed in claim 8 6, wherein said breaker is NaCl or Kcl.

10. **(Currently Amended)** A fluid as claimed in claim 7 \pm , wherein said polar base is selected from the ~~groups including group consisting of~~ water, methanol, ethanol, propanol and isopropanol.

11. **(Currently Amended)** A fluid as claimed in claim 7 \pm , emulsified with liquid CO₂ or N₂ and a surfactant.

12. **(Original)** A fluid as claimed in claim 11, emulsified with liquid CO₂ in an amount of 50-52% to 94-95% (volume).

13. **(Previously Presented)** A fluid as claimed in claim 11, wherein said surfactant is an ethoxylated alkylphenol.

14. **(Currently Amended)** A fluid as claimed in claim 10 ± 1 , containing up to 50% N₂ or CO₂.

15. **(Currently Amended)** A fracturing fluid consisting essentially of a polar base, 0.1-5.0% of a mid-molecular weight polyacrylate, ~~and~~ an activator for ionizing said polyacrylate to a hygroscopic state, ~~and a breaker in an amount of 0.1-1.0% wt,~~ wherein said breaker is NaCl or Kcl.

16. **(Cancelled)**

17. **(Currently Amended)** A fluid as claimed in claim 15 ± 6 , wherein said breaker is an organic or inorganic salt.

18. **(Cancelled)**

19. **(Currently Amended)** A fluid as claimed in claim 15 ~~16~~, wherein said polar base is selected from the ~~groups including~~ group consisting of water, methanol, ethanol, propanol and isopropanol.

20. **(Currently Amended)** A fluid as claimed in claim 19 ~~16~~, emulsified with liquid CO₂ or N₂ and a surfactant.

21. **(New)** A fluid as claimed in claim 20, emulsified with liquid CO₂ in an amount of 50-52% to 94-95% (volume).

22. **(New)** A fluid as claimed in claim 20, emulsified with liquid CO₂ in an amount of 52% to 95% (volume).

23. **(New)** A fluid as claimed in claim 20, wherein said surfactant is an ethoxylated alkylphenol.

24. **(New)** A fluid as claimed in claim 19, containing up to 50% N₂ or CO₂.

25. **(New)** A fluid as claimed in claim 15 wherein said polyacrylate is a polyacrylic acid polymer cross linked with polyalkenyl ethers or di-vinyl glycol.

26. **(New)** A fluid as claimed in claim 25, wherein said polyacrylate is present in particles of about 0.2 micron diameter.

27. **(New)** A fluid as claimed in claim 26, wherein said fluid is provided with 0.1-5.0% (wt) of an activator to initiate hydration of aid polyacrylate.

28. **(New)** A fluid as claimed in claim 27, wherein said activator is selected from triethanolamine, NaOH, KOH and NH₄OH.

29. **(New)** A fluid as claimed in claim 28, wherein said breaker is encapsulated.

30. **(New)** A fluid as claimed in claim 1 wherein said polyacrylate is a polyacrylic acid polymer cross linked with polyalkenyl ethers or di-vinyl glycol.

31. **(New)** A fluid as claimed in claim 30, wherein said polyacrylate is present in particles of about 0.2 micron diameter.

32. **(New)** A fluid as claimed in claim 31, wherein said fluid is provided with 0.1-5.0% weight of an activator to initiate hydration of said polyacrylate.

33. **(New)** A fluid as claimed in claim 32, wherein said activator is selected from triethanolamine, NaOH, KOH and NH₄OH.

34. **(New)** A fluid as claimed in claim 33, wherein said breaker is encapsulated.

35. **(New)** A fluid as claimed in claim 1, wherein said polar base is selected from the group consisting of water, methanol, ethanol, propanol and isopropanol.

36. **(New)** A fluid as claimed in claim 1, foamed with liquid CO₂ or N₂ and a surfactant.

37. **(New)** A fluid as claimed in claim 36, foamed with liquid CO₂ in an amount of 50-52% to 94-95% (volume).

38. **(New)** A fluid as claimed in claim 36, foamed with liquid CO₂ in an amount of 50-95% (volume).

39. **(New)** A fluid as claimed in claim 36, wherein said surfactant is an ethoxylated alkylphenol.

40. **(New)** A fluid as claimed in claim 1, containing up to 50% N₂ or CO₂.

41. **(New)** A fluid as claimed in claim 6, wherein said breaker is an organic or inorganic salt.

42. **(New)** A fluid as claimed in claim 41, wherein said breaker is NaCl or KCl.

43. **(New)** A fluid as claimed in claim 41, wherein said polar base is selected from the group consisting of water, methanol, ethanol, propanol and isopropanol.

44. **(New)** A fluid as claimed in claim 42, foamed with liquid CO₂ or N₂ and a surfactant.

45. **(New)** A fluid as claimed in claim 44, foamed with liquid CO₂ in an amount of 50-52% to 94-95% (volume).

46. **(New)** A fluid as claimed in claim 44, foamed with liquid CO₂ in an amount of 52-95% (volume).

47. **(New)** A fluid as claimed in claim 44, wherein said surfactant is an ethoxylated alkylphenol.

48. **(New)** A fluid as claimed in claim 2, containing up to 50% N₂ or CO₂.

49. (**New**) A fracturing fluid comprising a polar base, 0.1-5.0% of a mid molecular weight polacrylate, an activator for ionizing said polyacrylate to a hygroscopic state wherein said fluid is emulsified with liquid CO₂, or N₂ and a surfactant.
50. (**New**) A fluid as claimed in claim 49, emulsified with liquid CO₂ in an amount of 50-52% to 94-95% (volume).
51. (**New**) A fluid as claimed in claim 49, emulsified with liquid CO₂ in an amount of 52% to 95% (volume).
52. (**New**) A fluid as claimed in claim 49, wherein said surfactant is an ethoxylated alkylphenol.
53. (**New**) A fluid as claimed in claim 52, wherein said polyacrylate is a polyacrylic acid polymer cross linked with polyalkenyl ethers or di-vinyl glycol.
54. (**New**) A fluid as claimed in claim 53, wherein said polyacrylate is present in particles of about 0.2 micron diameter.
55. (**New**) A fluid as claimed in claim 54, wherein said fluid is provided with 0.1-5.0% (wt) of an activator to initiate hydration of said polyacrylate, wherein said activator is selected from triethanolamine, NaOH, KOH and NH₄OH.
56. (**New**) A fluid as claimed in claim 55, additionally comprising a breaker.
57. (**New**) A fluid as claimed in claim 56, wherein said breaker is encapsulated.

58. (**New**) A fluid as claimed in claim 57, wherein said breaker is an organic or inorganic salt.

59. (**New**) A fluid as claimed in claim 58, wherein said breaker is NaCl or Kcl.

60. (**New**) A fluid as claimed in claim 59, wherein said polar base is selected from the group consisting of water, methanol, ethanol, propanol and isopropanol.